Fig. 1

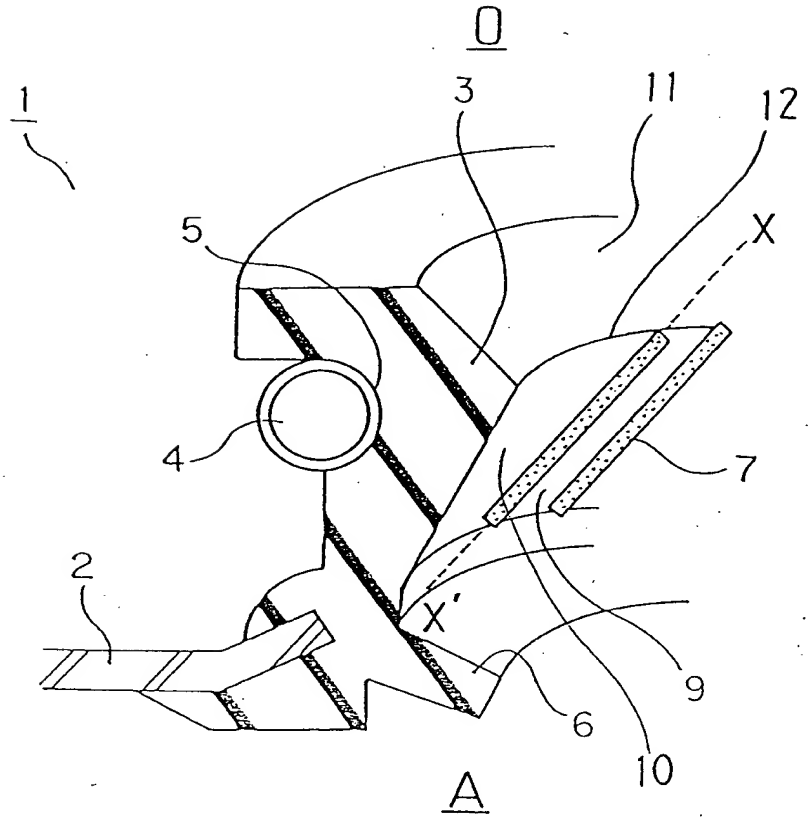

Fig. 2

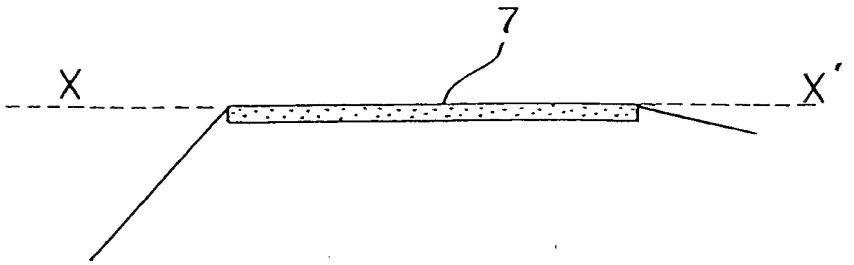

Fig. 3

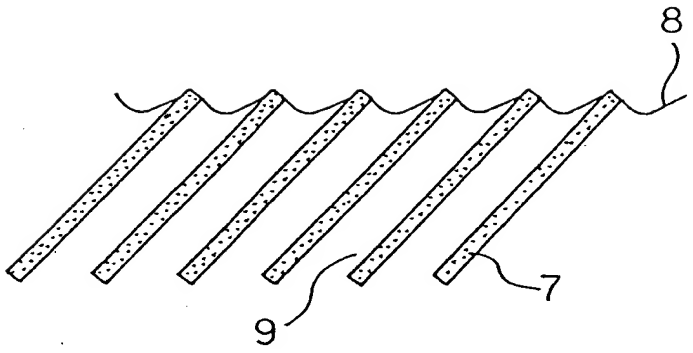

Fig. 4

Irradiation dose(Mrad)	Hardness (JIS A)
non-irradiated	78
10	84
20	85
50	84

Fig. 5

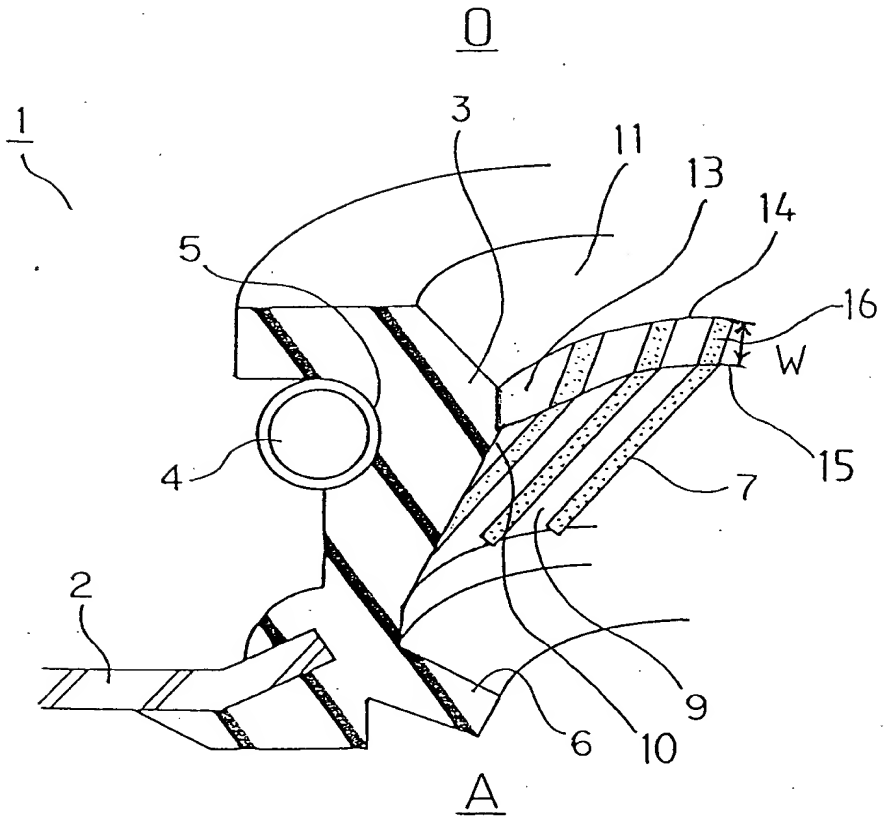

Fig. 6A

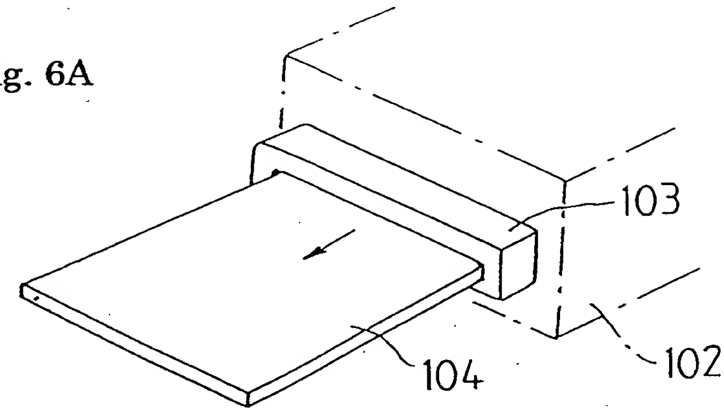

Fig. 6B

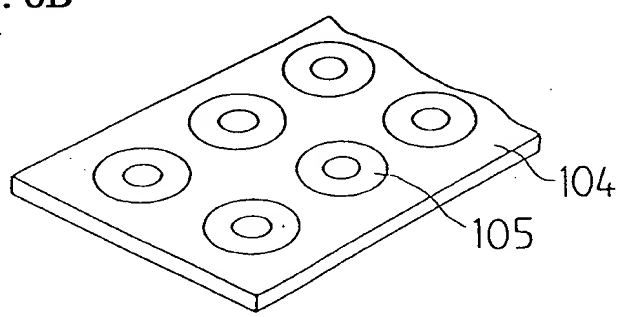

Fig. 6C

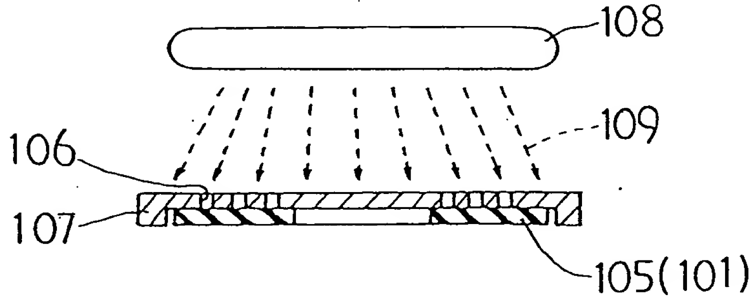

Fig. 7A

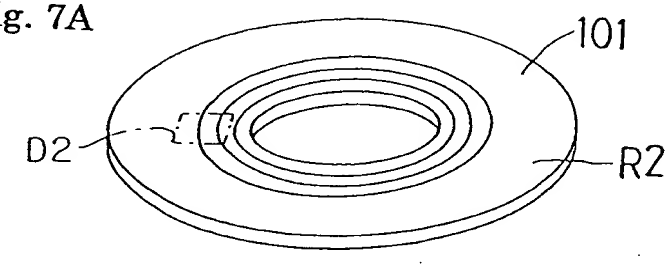

Fig. 7B

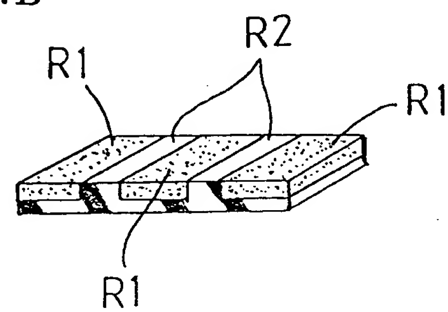

Fig. 7C

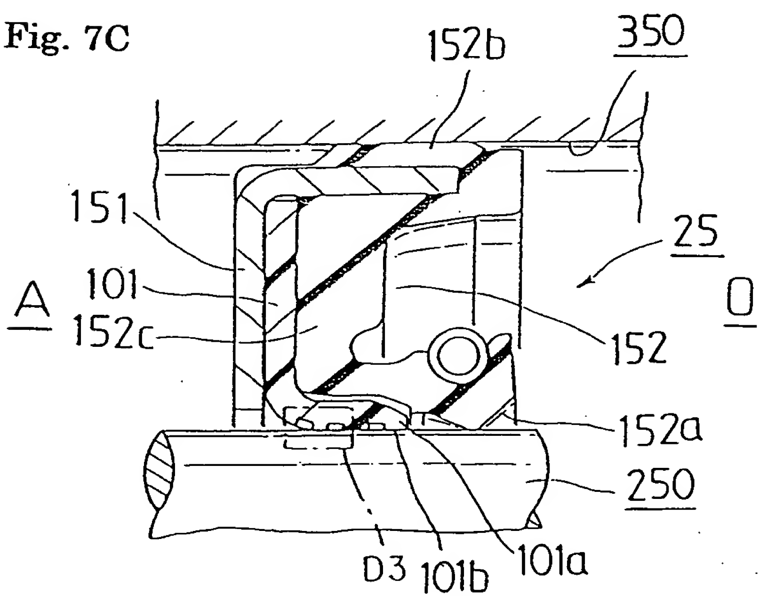

Fig. 7D

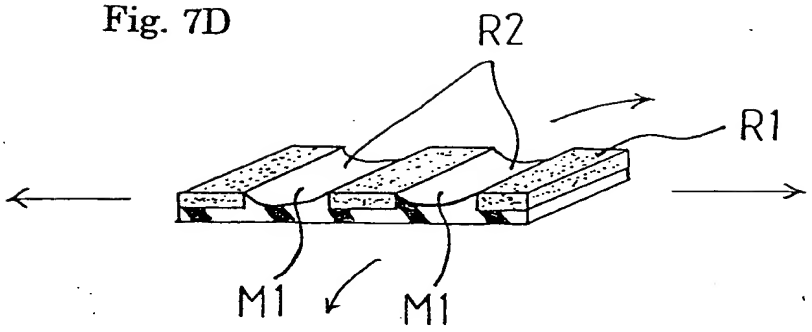

Fig. 8A

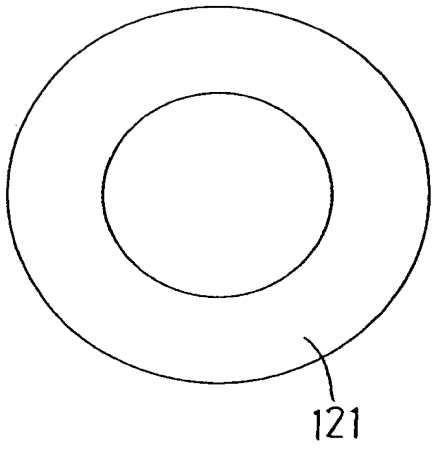

Fig. 8B

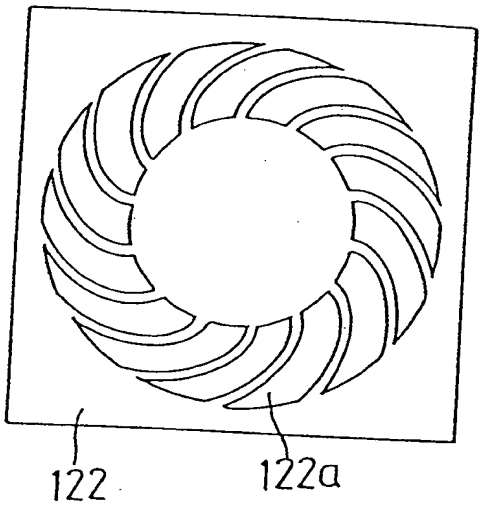

Fig. 8C

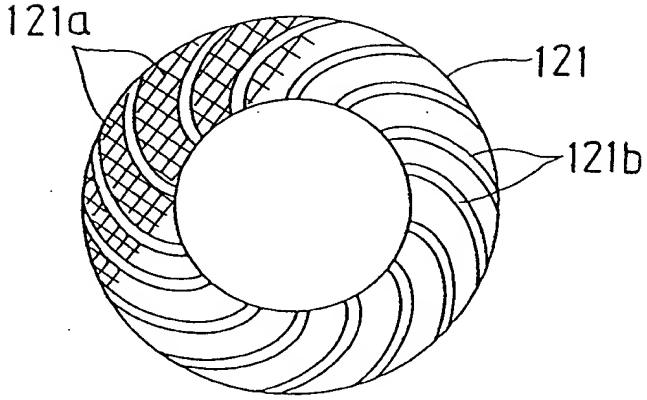

Fig. 9

Relation between irradiation dose and mechanical properties

		Irradiation atmosphere	Irradiation dose (Mrad)	Modulus of elasticity at 100% elongation (Mpa)	Strength at break (Mpa)
Example 1	Polymer only	N_2	0	1.5	1.1
		N_2	10	1.5	3.5
		N_2	20	1.5	2.8
		N_2	50	1.5	2.9
Example 2	Composition having carbon black	N_2	0	6.5	4.2
		N_2	10	6.8	11.0
		N_2	20	8.1	10.8
		N_2	50	10.5	10.3

Fig. 10

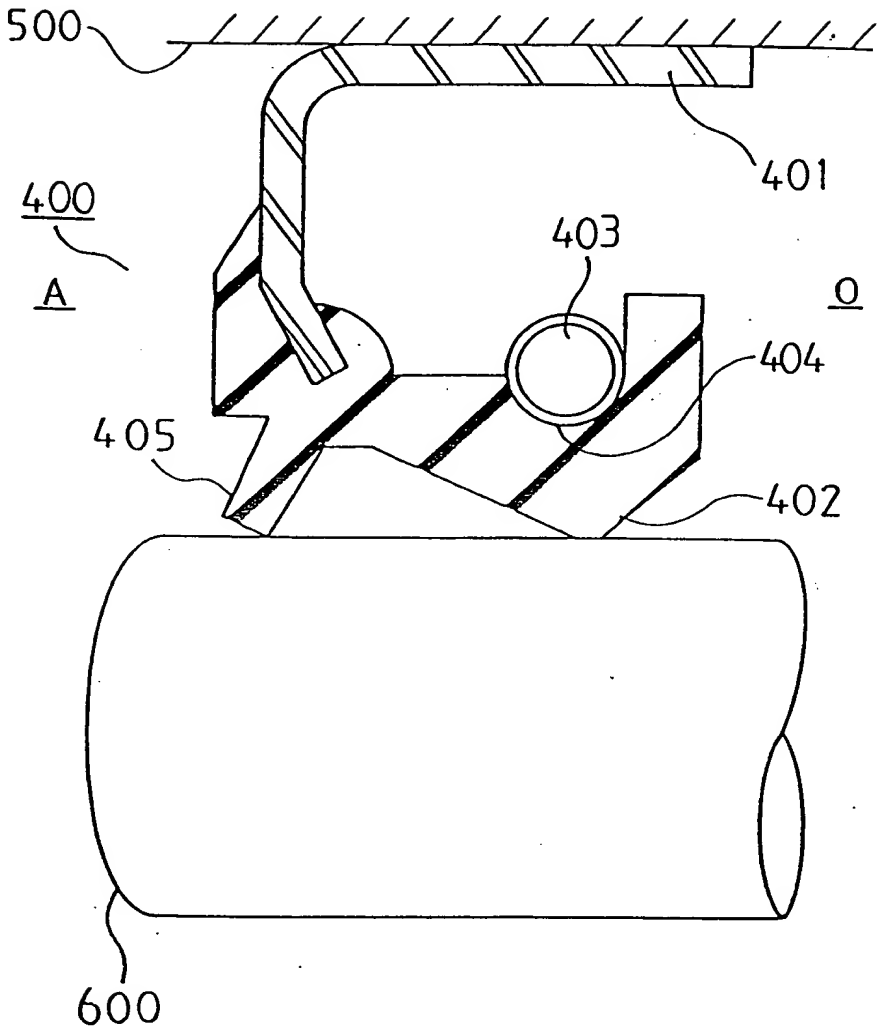

Fig. 11

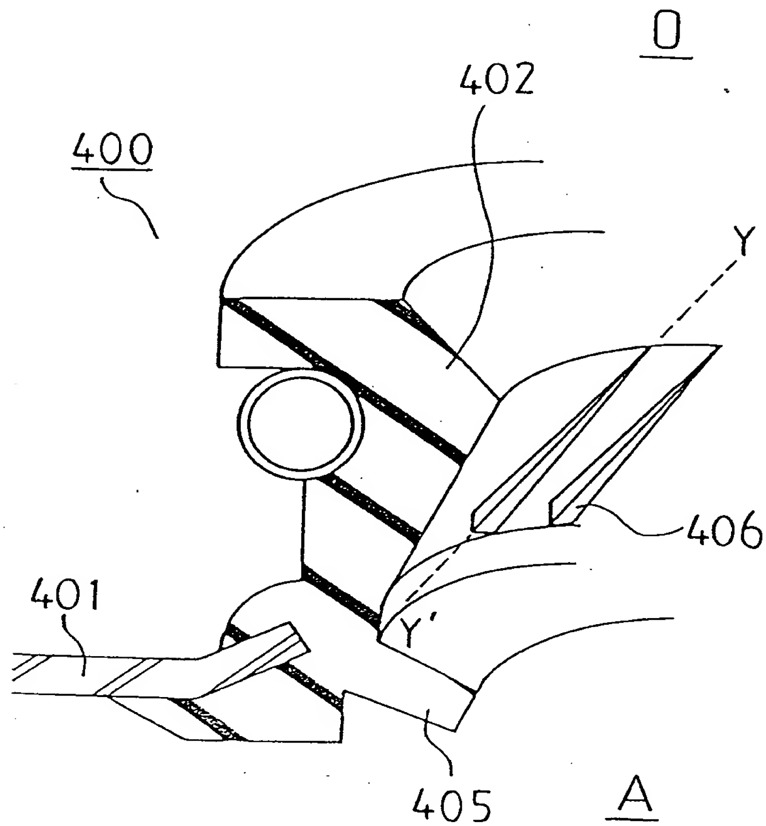

Fig. 12

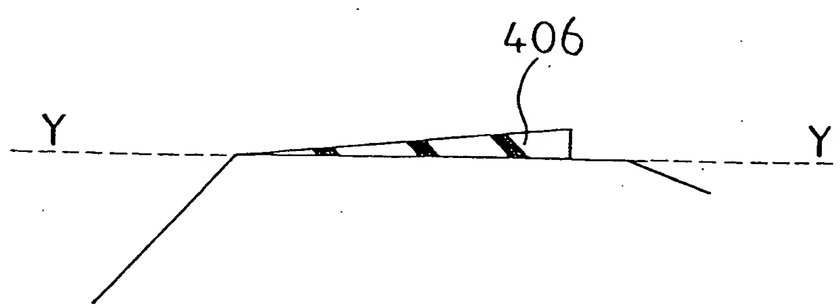

Fig. 13

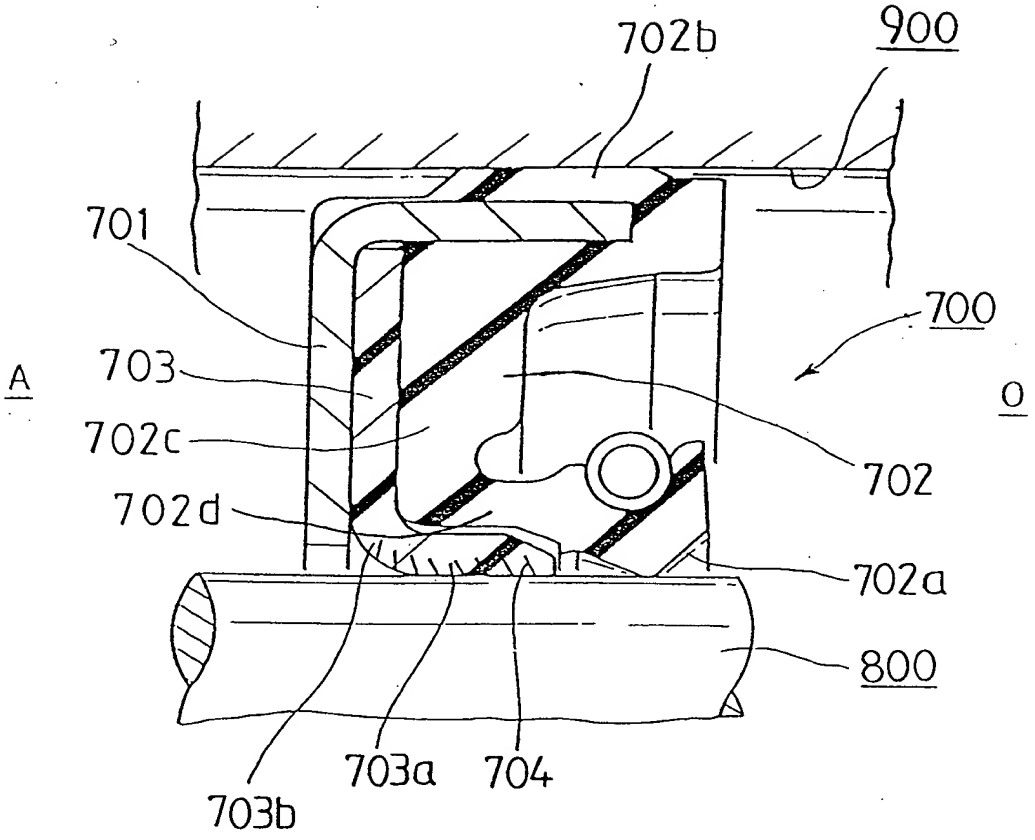

Fig. 14A

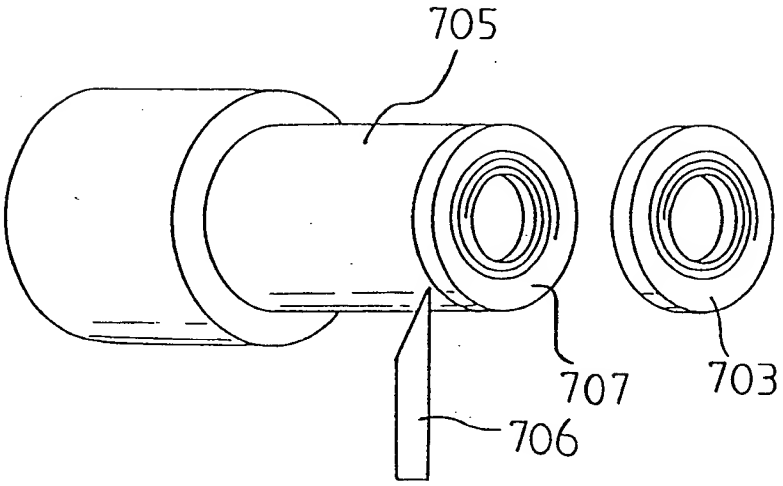

Fig. 14B